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## **METHOD OF POLYMERIZATION**

## **ABSTRACT**

This invention relates to a composition of matter represented by the formula below, and to a polymerization process comprising combining an olefin in the gas or slurry phase with an activator, a support and a compound represented by the following formula:

$$\begin{array}{c|c}
R^4 & R^6 \\
R^3 & Y & R^6 \\
R^2 & Z & R^7 \\
R^5 & R^7
\end{array}$$

wherein

M is a group 3 to 14 metal,

each X is independently an anionic leaving group,

n is the oxidation state of M,

m is the formal charge of the YZL ligand,

Y is a group 15 element,

Z is a group 15 element,

L is a group 15 or 16 element,

R<sup>1</sup> and R<sup>2</sup> are independently a C<sub>1</sub> to C<sub>20</sub> hydrocarbon group, a heteroatom containing group, silicon, germanium, tin, lead, phosphorus, a halogen,

R<sup>1</sup> and R<sup>2</sup> may also be interconnected to each other,

R<sup>3</sup> is absent, or is hydrogen, a group 14 atom containing group, a halogen, a heteroatom containing group,

R<sup>4</sup> and R<sup>5</sup> are independently an aryl group, a substituted aryl group, a cyclic alkyl group, a substituted cyclic alkyl group, or multiple ring system,

R<sup>6</sup> and R<sup>7</sup> are independently absent or hydrogen, halogen, a heteroatom or a hydrocarbyl group, or a heteroatom containing group.